Appendix A
Tables

List of Tables

A.1 Prehistoric Artifacts from Phase II Survey A.2
A.2 Prehistoric Lithic Artifacts from Phase II and III Investigations A.3
A.3 Debitage A.5
A.4 Points A.6
A.5 Form Tools A.8
A.6 Bifaces A.9
A.7 Cores A.10
A.8 Flake Tools A.10
A.9 Summary of Microwear Analysis A.11
A.10 Ceramics A.12
A.11 Historic Artifacts A.13
A.12 Phase II and III Lithic Artifacts from Cluster 1, All Units A.15
A.13 Phase II and III Lithic Artifacts from Cluster 1, Within Phase III APE A.16
A.14 Results of Microwear Analysis A.17
A.15 Phase II and III Lithic Artifacts from Cluster 2 ..... A.19
A.16 Phase II and III Lithic Artifacts from Cluster 3 ..... A.20
A.17 Phase II and III Lithic Artifacts from Cluster 4 ..... A.21
A.18 Phase II and III Lithic Artifacts from Cluster 5 ..... A.23
A.19 Assemblage Characteristics by Cluster A.24
A.20 Projectile Point Haft Types A.25
A.21 Heat Treatment by Material Type and Cluster A.26

Note: Unless otherwise indicated, tables include data from Phase II and III surveys combined.

Table A.1 Prehistoric Artifacts from Phase II Investigations

	Cecil Co. Black Flint	Chalce-dony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quart-zite	Sand-stone	TOTAL
Early Stage Biface								3					3
Middle Stage Biface								2					2
Late Stage Biface						1	2	4	4				11
Projectile Point			2	1		1		2	1				7
Free Hand Core								4					4
Tested Cobble			1					4			7		12
Decortication Flake			13		1		2	67	1	15	12		111
Early Reduction Flake	1	1	13		4	5	2	83	7	10	19		145
Finishing Flake	2		3			7	2	12	6	1	2		35
Biface Thinning Flake	7	3	27	8	5	8	9	125	38	6	18		254
Block Shatter	1		4			3	1	99	6	6	3		123
Flake Fragment			3					19	4	1	2		29
Endscraper									1				1
Utilized Flake			1				1	5					7
Endscraper/Sidescraper			1					1					2
TOTAL	11	4	68	9	10	25	19	430	68	39	63	0	746
PERCENT	1.5%	0.5%	9.1%	1.2%	1.3%	3.4%	2.5%	57.6%	9.1%	5.2%	8.4%	0.0%	
Abrader												1	1
Anvil												2	2
Hammerstone								3			9	2	14
Pitted Cobble											1		1
TOTAL								3			10	5	18
PERCENT								16.7%			55.6%	27.8%	
Fire-cracked Rock								5			33	8	46

Table A.2 Prehistoric Lithic Artifacts from Phase II and III Investigations

	Argil-lite	Cecil Co. Black Flint	Chal-cedony	Chert	Igneous/ Meta-morphic	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quart-zite	Rhyo-lite	Sand-stone	Unidenti-fied	TOTAL
Early Stage Biface										9	1		1				11
Middle Stage Biface				1					2	18	3		2				26
Late Stage Biface	1		1	1				6	3	28	8		1	1			50
Unidentifiable Biface		1							1	7	2	1					12
Free Hand Core				8					2	30			8				48
Bipolar Core				1									2				3
Tested Cobble				5			1		1	39	2		23				71
Decortication Flake			1	87		1	5	15	52	322	7	39	62	3			594
Early Reduction Flake		9	2	103	1	9	9	29	45	379	26	34	92	2			740
Finishing Flake		11	1	93		3		51	50	153	43	2	10	1			418
Bipolar Reduction Flake								1		3	1						5
Biface Thinning Flake	1	19	7	241		26	16	104	120	902	268	22	104	13			1843
Block Shatter		2		51		3	1	18	33	483	21	18	13		1		644
Flake Fragment		3		83		1	3	27	38	255	53	2	11	4			480
Projectile Point	3	1		12		2	1	3	3	12	6		2				45
Reworked Point				2		1											3
Bifacial Knife		1								1							2
Endscraper				5				1	2	3	5					1	17
Endscraper/Sidescraper				4					2	8	1						15
Spokeshave				2					1	1	1						5
Sidescraper									1	1							2
Retouched Flake				2					1	1							4
Utilized Flake		3	2	15		1	1	5	15	18	6		5				71
Notched Flake				1						1							2
Graver Flake						1					1						2
Unidentifiable Uniface							1	1	3		1						6
TOTAL	5	50	14	717	1	48	38	261	375	2674	456	118	336	24	1	1	5119
PERCENT	0.1%	1.0%	0.3%	14.0%	0.0%	0.9%	0.7%	5.1%	7.3%	52.2%	8.9%	2.3%	6.6%	0.5%	0.0%	0.0%	

Table A.2 Prehistoric Lithic Artifacts from Phase II and III Investigations, continued

	Argil-lite	Cecil Co. Black Flint	Chal-cedony	Chert	Igneous/Meta-morphic	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quart-zite	Rhyo-lite	Sand-stone	Meta- sedi-mentary	TOTAL
Abrader													1		2		3
Anvil													8		5		13
Hammerstone					2				2	10			76		33	5	128
Metate															1		1
Mortar													1				1
Pitted Cobble													2				2
Unidentifiable Pebble Tool									1								1
Unidentifiable Cobble Tool					1					1			4				6
TOTAL					3				3	11			92		41	5	155
PERCENT					0.3%				0.3%	1.3%			10.5%		4.7%	0.6%	
Fire Cracked Rock					4		26			95			547		184	20	876

Steatite = 3

Table A.3 Debitage

	Cecil Co. Flint	Chal-cedony	Iron Hill Jasper	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz Crystal	Quartz Rose	Quartz-ite	Chert	Iron-stone	Rhyo-lite	Other	TOTAL
Decortication Flake		1	1	15	52	322	7	39	62	87	5	3		594
Early Reduction Flake	9	2	9	29	45	379	26	34	92	103	9	2	1	740
Biface Thinning Flake	19	7	26	104	120	902	268	22	104	241	16	13	1	1843
Finishing Flake	11	1	3	51	50	153	43	2	10	93		1		418
Bipolar Reduction Flake				1		3	1							5
Block Shatter	2		3	18	33	483	21	18	13	51	1		1	644
Flake Fragment	3		1	27	38	255	53	2	11	83	3	4		480
TOTAL	44	11	43	245	338	2497	419	117	292	658	34	23	3	4724
PERCENT	0.9%	0.2%	0.9%	5.2%	7.2%	52.9%	8.9%	2.5%	6.2%	13.9%	0.7%	0.5%	< 0.1%	
Proportion by reduction flake type														
	Cecil Co. Flint	Chal-cedony	Iron Hill Jasper	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz Crystal	Quartz Rose	Quartz-ite	Chert	Iron-stone	Rhyo-lite	Other	TOTAL
Decortication Flake		9.1%	2.6%	7.5%	19.5%	18.3%	2.0%	40.2%	23.1%	16.6%	16.7%	15.8%		16.5%
Early Reduction Flake	23.1%	18.2%	23.1%	14.5%	16.9%	21.5%	7.5%	35.1%	34.3%	19.7%	30.0%	10.5%	50.0%	20.6%
Biface Thinning Flake	48.7%	63.6%	66.7%	52.0%	44.9%	51.3%	77.7%	22.7%	38.8%	46.0%	53.3%	68.4%	50.0%	51.2%
Finishing Flake	28.2%	9.1%	7.7%	25.5%	18.7%	8.7%	12.5%	2.1%	3.7%	17.7%	0.0%	5.3%		11.6%
Bipolar Reduction Flake				0.5%		0.2%	0.3%							0.1%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%
Cortex														
	Cecil Co. Flint	Chal-cedony	Iron Hill Jasper	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz Crystal	Quartz Rose	Quartz-ite	Chert	Iron-stone	Rhyo-lite	Other	TOTAL
Cortex Absent	72.7%	72.7%	83.7%	66.9%	53.3%	66.8%	90.5%	35.9%	47.3%	55.5%	41.2%	73.9%	33.3%	
Cortex Present	27.3%	27.3%	16.3%	33.1%	46.7%	33.2%	9.5%	64.1%	53.3%	44.5%	58.8%	26.1%	66.7%	

Table A.4 Points

Cat no.	Type	Cluster	Count	Material	Element	Weight	Length	Width	Thickness
028A.1	Triangular	4	1	Jasper, Red	Whole	1.8	31.4	20.3	4.2
033Z.1	Triangular	1	1	Chert	Broken	3	21	23.3	5
042C.1	Unidentifiable straight stem	4	1	Quartz, Crystal	Broken				
043Z.2	Rossville	4	1	Quartz	Whole	3.7	33.4	14.6	7.7
044C.1	Untyped side-notched	4	1	Quartz	Whole	5.5	30.6	22.9	8.2
065A.2	Triangular	4	1	Jasper, Red	Broken	2.5	25.4	18.9	5.1
075C.2	Unidentifiable straight stem	1	1	Chert	Proximal End	2.1		15.7	6.3
202A.1	Poplar Island	4	1	Jasper, Yellow/Brown	Whole	5.7	35.9	18.2	11.7
214A.2	Unidentifiable	4	1	Quartz, Crystal	Distal Tip	0.9			
233B.1	Untyped lanceolate, concave base	4	1	Quartz	Proximal End	6.2		23.3	10.3
260D.1	Brewerton Side-notched	4	1	Quartz	Whole	8.8	36.9	23.2	11.3
260D.2	Rossville	4	1	Quartzite	Whole	4.4	37.5	16.9	7.5
271B.1	Lanceolate (Fox Creek?)	4	1	Argillite	Whole	4	42.9	14	6.3
307D.2	Unidentifiable	1	1	Chert	Distal Tip	0.2			
329A.1	Brewerton eared-notched	4	1	Quartz	Broken	9	30.3	25.4	11.4
357C.1	Jack's Reef Pentagonal	4	1	Quartz	Whole	7	29.7	20.9	11.1
388C.1	Unidentifiable (mend with 075C)	1	2	Chert	Broken	4.1		25.2	7.6
400A.7	Poplar Island		1	Cecil County	Broken	3.5		17.89	7.86
401A.1	Poplar Island	4	1	Jasper, Yellow/Brown	Whole	2.8	275	15.4	7.6
405A.1	Poplar Island	4	1	Chert	Whole	2.2	26.2	15.4	6.8
406D.1	Susquehanna broadspear	4	1	Chert	Broken	6.2	39.2	22.9	7
408C.1	Rossville	4	1	Chert	Whole	2	29.6	16.8	5.3
410A.1	Rossville	4	1	Quartz	Whole	3.5	29.3	14.6	9.2
413D.4	Rossville	4	1	Quartzite	Whole	6.4	40.8	17.4	9.6
453A.2	Poplar Island	4	1	Jasper, Red	Whole	3.6	37.7	15	7.5
453A.4	Unidentifiable contracting stem	4	1	Quartz, Crystal	Proximal End	3.1			9.6
469D.1	Fox Creek lancoelate	1	1	Argillite	Proximal End	5.5		27.7	5.1
474B.8	St Albans	3	1	Chert	Whole	3.1	30.9	22	4.6
476C.17	Brewerton Side-notched	1	1	Jasper, Yellow/Brown	Whole	2.8	27.3	19.5	5.5
481B.1	Unidentifiable straight stem	3	1	Quartz, Crystal	Proximal End	0.7			
554A.1	Brewerton corner-notched	4	1	Chert	Broken	5.3		26.5	5.5
554B.1	Unidentifiable	4	1	Quartz, Crystal	Distal Tip	1.3			
555D.1	Unidentifiable	4	1	Quartz	Medial Section	8.6		20.8	10
567C.2	Unidentifiable straight stem	4	1	Quartz	Proximal End	5.1		22.09	7.48

Table A.4 Points, continued

Cat no.	Type	Cluster	Count	Material	Element	Weight	Length	Width	Thickness
573D.5	Brewerton Side-notched	4	1	Quartz	Broken	8.7	33.59	24.05	10.54
573D.11	Fox Creek Stemmed	4	1	Chert	Broken	4.5	33.14	17.86	7.44
578D.1	Poplar Island	4	1	Chert	Proximal End	2.7		16.52	7.33
580D.1	Triangular	4	1	Iron Hill Jasper	Broken	0.8	14.44	14.35	2.84
581D.1	Unidentifiable, unfinished?	4	1	Ironstone	Whole	14.3	54.57	26.96	9.02
589D.1	Teardrop	4	1	Argillite	Whole	1.5	31.55	11.8	3.85
596D.1	Untyped side-notched	4	1	Quartz	Proximal End	3.6		9.17	28.5
608A.1	Unidentifiable	4	1	Jasper, Red	Distal Tip	1.7			
616A.1	Unidentifiable	4	1	Quartz, Crystal	Distal Tip	1.2			
620D.1	Brewerton eared-notched	4	1	Quartz	Broken	4.2		18.27	7.22

Table A.5 Form Tools

Cat No.	Type	Cluster	Count	Material	Element
040D.1	Endscraper	4	1	Quartz, Crystal	Whole
077C.6	Endscraper/ Sidescraper	1	1	Chert	Whole
81C	Endscraper/Sidescraper	3	1	Quartz	
254A.1	Endscraper/ Sidescraper	4	1	Quartz	Whole
259A.5	Unidentifiable Uniface	4	1	Quartz, Crystal	Whole
297B.1	Endscraper	1	1	Jasper, Yellow/Brown	Whole
308D.2	Spokeshave	1	1	Quartz	Whole
314C.1	Endscraper/ Sidescraper	3	1	Quartz	Whole
315A.1	Endscraper	3	1	Quartz	Whole
318D.1	Endscraper/ Sidescraper	3	1	Jasper, Yellow/Brown	Whole
319A.2	Endscraper	3	1	Chert	Whole
322B.1	Endscraper	3	1	Quartz	Whole
324D.3	Unidentifiable Uniface	5	1	Jasper, Yellow/Brown	Broken
329A.2	Endscraper/ Sidescraper	4	1	Chert	Whole
348B.1	Endscraper	4	1	Jasper, Yellow/Brown	Whole
402A.1	Endscraper	4	1	Chert	Whole
405D.11	Unidentifiable Uniface	4	1	Jasper, Yellow/Brown	Whole
406A.1	Unidentifiable Uniface	4	1	Jasper, Yellow/Brown	Broken
409B.2	Endscraper	4	1	Chert	Whole
440D.5	Endscraper	4	1	Quartz, Crystal	Broken
447B.7	Endscraper/ Sidescraper	4	1	Quartz	Broken
459D.1	Endscraper	3	1	Chert	Whole
465C.1	Endscraper/ Sidescraper	3	1	Quartz	Whole
476C.16	Endscraper	1	1	Unidentified Stone	Whole
476C.18	Bifacial knife	1	1	Quartz	Whole
483B.8	Endscraper	1	1	Quartz	Whole
487A.1	Endscraper	1	1	Jasper, Red	Whole
491C.1	Reworked Point/ Scraper	5	1	Chert	Whole
508D.1	Endscraper/ Sidescraper	3	1	Quartz	Whole
516A.1	Endscraper	4	1	Chert	Whole
520D.1	Endscraper	3	1	Quartz, Crystal	Whole
524B.4	Endscraper/ Sidescraper	4	1	Quartz	Whole
528C.3	Unidentifiable Uniface	4	1	Jasper, Red	Whole
535A.1	Unidentifiable Uniface	4	1	Ironstone	Whole
537C.1	Endscraper/ Sidescraper	4	1	Chert	Whole
537D.6	Spokeshave	4	1	Quartz, Crystal	Whole
567C.1	Endscraper/ Sidescraper	4	1	Jasper, Yellow/Brown	Broken
570A.1	Endscraper/ Sidescraper	4	1	Quartz, Crystal	Broken
570C.1	Reworked Point/ Reamer	4	1	Iron Hill Jasper	Whole
574D.1	Endscraper	4	1	Quartz, Crystal	Whole
581C.1	Sidescraper	4	1	Sandstone	Whole
589C.1	Spokeshave/Graver	4	1	Chert	Whole
591B.1	Endscraper/ Sidescraper	4	1	Chert	Whole
592A.6	Sidescraper	4	1	Quartz	Broken
597A.1	Bifacial knife	4	1	Chert	Whole
608C.2	Spokeshave	4	1	Jasper, Yellow/Brown	Whole
608D.1	Reworked Point	4	1	Chert	Whole
610C.1	Endscraper	4	1	Quartz, Crystal	Broken
611D.1	Spokeshave	4	1	Chert	Whole
624.4	Endscraper/ Sidescraper	4	1	Quartz	Whole

Table A.6 Bifaces

	Argil-lite	Cecil Co. Black Flint	Chalce-dony	Chert	Jasper, Red	Jasper, Yellow/ Brown	Rhyo-lite	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	TOTAL
Early Stage Biface								9	1		1	11
Middle Stage Biface				1		2		18	3		2	26
Late Stage Biface	1		1	1	6	3	1	28	8		1	50
Unidentifiable Biface		1				1		7	2	1		12
TOTAL	1	1	1	2	6	6	1	62	14	1	4	99
PERCENT	1.0%	1.0%	1.0%	2.0%	6.1%	6.1%	1.0%	62.6%	14.1%	1.0%	4.0%	

Table A.7 Cores

	Cecil Co. Black Flint	Chal-cedony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz-ite	TOTAL
Free Hand Core			8				2	30		8	48
Bipolar Core			1							2	3
TOTAL	0	0	9	0	0	0	2	30	0	10	51
PERCENT	0.0%	0.0%	17.6%	0.0%	0.0%	0.0%	3.9%	58.8%	0.0%	19.6%	

Table A.8 Flake Tools

	Cecil County Black Flint	Chal-cedony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz-ite	TOTAL
Retouched Flake			2				1	1			4
Utilized Flake	3	2	15	1	1	5	15	18	6	5	71
Notched Flake			1					1			2
Graver Flake				1					1		2
TOTAL	3	2	18	2	1	5	16	20	7	5	79
PERCENT	3.8%	2.5%	22.8%	2.5%	1.3%	6.3%	20.3%	25.3%	8.9%	6.3%	
Debitage	0.9%	0.2%	14.0%	0.9%	0.7%	5.2%	7.2%	52.7%	8.9%	6.2%	

Table A.9 Summary of Microwear Analysis

Artifact	Butchery	Meat Cutting	Hide Working	Bone/Antler Working	Wood Working	*Totals*	*Unidentified Material*	*Indeterminate (Weathering and Other Factors)*	*Hafting*
Projectile Points (N=8)	5					***5***	*1*	*2*	***7***
Other Bifaces (N=4)	1					***1***		*3*	***4***
Knives (N=2)	2					***2***			***2***
Gravers (N=3)			1	2		***3***			***1***
Scrapers (N=10)		1	2	1	1	***5***	*2*	*3*	***6***
Retouched/Denticulate Flakes (N=8)		1	1	1	2	***5***	*2*	*1*	***1***
Other Unifacial Tools (N=4)		2	2			***4***			***0***
Totals (N=39)	***8***	***4***	***6***	***4***	***3***	***25***	***5***	***9***	***21***

Table A.10 Ceramics

Cat no.	Strat	Level	Cluster	Surface Treatment	Count	Element	Temper	Thick-ness	Length	Width	Weight
298A.1	2	1	1	Plain, Incised	1	Body	Quartz and Sand	7.2	29.4	24	6
296A.3	1	2	1	Plain	1	Body	Quartz and Sand	6.4	21.4	17.9	2.7
297A.2	1	3	1	Plain	1	Body	Quartz and Sand	5.2	25	14.3	2.5
470A.2	2	1	1	Plain	1	Body	Quartz and Sand	3.6	14.5	12	0.6
478.1	1	1	1	Plain	1	Body	Quartz and Sand	3.9	14	9.2	0.6
478.2	1	1	1	Plain	1	Body	Grit - Igneous/ Metamorphic	4.8	18.3	17	1.3
545A.1	2	1	1	Plain	1	Body	Quartz and Sand	5.0	17.8	16.7	1.9
618D.3	1	1	4	Cordmarked	1	Body	Grit - Quartz	5.1	20.33	13.99	1.7
628.13	1	1	4	Cordmarked	1	Body	Grit - Quartz	3.9	18.5	15.39	0.7
492D.3	2	1	5	Cordmarked	1	Body	Grit - Quartz	5.6	17.11	11.98	1.2
324D.7	1	2	5	Cordmarked	1	Rim	Quartz and Sand	6.9	22.02	11.66	1.9
496A.5	1	2	5	Net Impressed	1	Body	Grit - Quartz	5.6	24.05	21.15	2.3
496C.6	1	2	5	Cordmarked	1	Body	Grit - Quartz	7.7	24.65	17.61	4.2
325C.10	1	3	5	Plain	2	Rim	Grit - Quartz	3.7	9.72	9.15	0.6
496C.5	1	2	5	Plain	1	Spall	Grit - Quartz	--	11.4	6.56	0.1
325C.9	1	3	5	Plain	1	Spall	Quartz and Sand	--	7.74	6.54	0.1

Table A.11 Historic Artifacts

	Begin Date	End Date	Non-cluster	1	2	3	4	5	TOTAL
Ceramics									
Red-bodied Earthenware, Unglazed			1				37		38
Red-bodied Earthenware, Clear Glaze							5		5
Red-bodied Earthenware, Yellow Brown to Brown Glaze							1		1
Red-bodied Earthenware, Dark Brown to Black Glaze				4	2	1	75		82
Red-bodied Earthenware, Yellow to Brown Glaze w/Dark Brown Mottling							2		2
Red-bodied Earthenware, Black Glaze			4				37	2	43
Red-bodied Earthenware, Dark Brown Glaze							38	1	39
Red-bodied Earthenware, Brown Glaze						1	32		33
Red-bodied Earthenware, Light Brown Glaze						1	18		19
Red-bodied Slipware, Trailed - General	1670	1850		1			4		5
Red-bodied Slipware, Trailed w/Green Spatters/Blotches	1670	1850					1		1
Stoneware, Non-Salt Glazed Gray Body w/ Brown Glaze					1				1
Stoneware, Plain	1720	1805					1		1
Stoneware, Other	1720	1805					1		1
Ceramic, Other Ceramic, Unidentifiable							1		1
Hard Paste Porcelain, Plain							1		1
Oriental Porcelain, Underglaze Blue - Other							1		1
Soft Paste Porcelain, Plain							5		5
Soft Paste Porcelain, Underglaze Handpainted							3		3
Creamware, Plain	1762	1820	3			1	65		69
Pearlware, Plain	1775	1840	1	1			76		78
Pearlware, Shell Edge - Blue	1775	1840		1			2		3
Pearlware, Overglaze Handpainted - Polychrome	1775	1810					2		2
Pearlware, Underglaze Blue Handpainted	1775	1820					25		25
Pearlware, Underglaze Polychrome Handpainted	1795	1825					16		16
Pearlware, Transfer Printed - Blue, with Stipple	1800	1840					4		4
Pearlware, Transfer Printed - Brown	1775	1840					11		11
Pearlware, Transfer Printed - Clobbered/Filled in	1800	1840					1		1
Pearlware, Transfer Printed - Black with Stipple	1800	1840					7		7
Pearlware, Dipped - Mocha	1790	1890					2		2
Pearlware, Dipped - Simple Bands	1775	1840					2		2
Pearlware, Sponged	1820	1840					3		3
Earthenware, Refined, Burned Unidentifiable							1		1
Earthenware, Refined, Other Unidentifiable							2		2
Whiteware, Plain	1815	Present	2	7	3		32	2	46
Whiteware, Other Embossed Rims	1815	Present				1			1
Whiteware, Overglaze Handpainted	1815	Present					1		1
Whiteware, Transfer Printed - Brown	1815	1915					1		1
Other Refined Earthenware, Thin Red Body - Black Glaze							3		3
Other Refined Earthenware, Thin Red Body - Dark Brown Glaze							2		2
Plain Brown Salt Glazed							1		1
Gray Salt Glazed, Plain				1					1

Table A.11 Historic Artifacts

	Begin Date	End Date	Non-cluster	1	2	3	4	5	TOTAL
Brown, Brownware Bowls	1900	1940	2						2
Brown, General Mottled Ferruginous Slip							1		1
Gray Body - Bristol Type Slip	1835	Present	1				1		2
Gray Body - Gray Surface - Other						1		2	3
Glass									
Liquor				1					1
Wine/Liquor				4		1	1		6
Medicine				1					1
Unidentified/General - Glass, Bottle			2	12		5	46	2	67
Jar/General							1		1
Lamp Chimney				1					1
Lamp Globe/Chimney						1	1		2
Total Unidentified Glass/Melted				2		1	1		4
Total Unidentified Glass/General						3			3
Tumbler/General							1	2	3
Unidentified Tableware/General				1		2			3
Unidentified Tumbler/Stemware						1			1
Architectural									
Brick			4			4	129		133
Glazed Brick							9		9
Machine Cut Nail - `Modern'	1885	Present				1			1
Machine Cut/Wrought Nail/Square			2	8	2	4	90	4	108
Unidentified Nail				19	4	24	61	19	127
Handwrought Tack							1		1
Machine Cut Spike	1830							3	3
Unidentified Spike						1			1
Spike							1		1
Window Glass			1	1	1	4	24	2	32
Cover Plate							1		1
Unidentifiable Architectural Hardware						3	1		4
Personal									
Mirror, Grooming						2			2
Mirror Glass						6			6
Pipe Stems, Kaolin							2		2
Silver Brooch (Contact Period)						1			1
Unidentified Button							1		1
Miscellaneous									
Shotgun Shell							1		1
Gunflints							1		1
Gunflint - Fragment							1		1
Unidentified Metal				17		10	17	4	48
Plastic				1					1
Horseshoe							1		1
Unidentifiable Hardware							1		1
Miscellaneous Metal Plates							2		2
TOTAL			23	83	13	80	919	43	1161

Table A.12 Phase II and III Lithic Artifacts from Cluster 1, All Units

	Cecil Co. Black Flint	Chalce-dony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	Rhyo-lite	Uniden-tified	TOTAL
Early Stage Biface								2						2
Middle Stage Biface								1						1
Late Stage Biface							1							1
Projectile Point			5				1				1			7
Unidentifiable Biface								1		1				2
Free Hand Core								3						3
Tested Cobble							1	9			11			21
Decortication Flake		1	17			1	11	70	1	19	11	2		133
Early Reduction Flake		1	26	4	1	9	12	63	6	8	11			141
Biface Thinning Flake	1	2	48	10	3	31	20	57	20	3	3			198
Finishing Flake			2			1		1	1	1				6
Block Shatter						1		42	3	2				48
Flake Fragment			3				3		3					9
Bifacial Knife								1						
Endscraper						1	1	1					1	4
Utilized Flake			3					3						6
Endscraper/Sidescraper			1											1
Spokeshave								1						1
TOTAL	1	4	105	14	4	44	50	255	34	34	37	2	1	585
PERCENT	0.2%	0.7%	17.9%	2.4%	0.7%	7.5%	8.5%	43.6%	5.8%	5.8%	6.3%	0.3%	0.2%	

	Igneous/ Meta-morphic	Sand-stone	Meta-sedi-mentary	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/B rown	Quartz	Quartz, Crystal	Quartz, Rose	Quartzi te-	Rhyo-lite	Uniden-tified	TOTAL
Anvil											3			3
Hammerstone		1	2								13			16
Unidentifiable Pebble Tool							1							1
Unidentifiable Cobble Tool	1							1			1			3
TOTAL	1	1	2	0	0	0	1	1	0	0	17	0	0	23
PERCENT	4.3%	4.3%	8.7%	0.0%	0.0%	0.0%	4.3%	4.3%	0.0%	0.0%	73.9%	0.0%	0.0%	
Fire Cracked Rock					7			5			46			58

Table A.13 Phase II and III Lithic Artifacts from Cluster 1, Within Phase III APE

	Cecil Co. Black Flint	Chalce-dony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartzi te-	Rhyo-lite	Uniden-tified	TOTAL
Early Stage Biface								2						2
Middle Stage Biface								1						1
Late Stage Biface							1							1
Projectile Point			5				1				1			7
Unidentifiable Biface								1		1				2
Free Hand Core								2						2
Tested Cobble							1	9			10			20
Decortication Flake		1	16			1	11	59		14	10	2		114
Early Reduction Flake		1	23	4	1	9	12	55	6	8	10			129
Biface Thinning Flake	1	2	45	8		30	20	51	14	3	2			176
Finishing Flake			1			1		1	1	1				5
Block Shatter						1		22		1				24
Flake Fragment			2				3		3					8
Bifacial Knife								1						
Endscraper						1	1	1					1	4
Utilized Flake			2					2						4
Spokeshave								1						1
TOTAL	1	4	94	12	1	43	50	208	24	28	33	2	1	501
PERCENT	0.2%	0.8%	18.8%	2.4%	0.2%	8.6%	10.0%	41.5%	4.8%	5.6%	6.6%	0.4%	0.2%	
	Igneous/ Meta-morphic	Sand-stone	Meta-sedi-mentary	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/B rown	Quartz	Quartz, Crystal	Quartz, Rose	Quartzi te-	Rhyo-lite	Uniden-tified	TOTAL
Anvil											3			3
Hammerstone		1	2								12			15
Unidentifiable Pebble Tool							1							1
Unidentifiable Cobble Tool	1							1			1			3
TOTAL	1	1	2	0	0	0	1	1	0	0	16	0	0	22
PERCENT	4.5%	4.5%	9.1%	0.0%	0.0%	0.0%	4.5%	4.5%	0.0%	0.0%	72.7%	0.0%	0.0%	
Fire Cracked Rock					7			1			41			49

Table A.14. Results of Microwear Analysis

Cat No.	Cluster	Artifact	Material	Function
33A.1	1	Projectile Point	Chert	Butchery
				Macro-Impact Fracture
75C/388C	1	Stemmed Point	Chert	Hafting
77C.1	1	Scraper	Chert	Wood Planing
				Hafting
476C.18	1	Bifacial Knife	Quartz	Butchery
				Butchery
				Hafting
476C.17	1	Projectile Point	Jasper	Butchery
				Hafting
493A.1	1	Retouched Flake	Chert	Meat Cutting
				Indeterminate Material
				Indeterminate Material
				Hafting
81C.1	3	Scraper	Quartz	Indeterminate Material
				Indeterminate Material
				Hafting
315A.1	3	Scraper	Quartz	Meat Cutting
				Meat Cutting
318D.1	3	Retouched Flake	Jasper	Wood Working
459D.1	3	Scraper	Chert	Hafting
474B.8	3	Projectile Point	Chert	Butchery
				Micro-Impact Fracture
				Hafting
				Hafting
40D.1	4	Endscraper	Crystal Quartz	Bone Working
				Indeterminate Material
				Hafting
43.2	4	Projectile Point	Quartz	Butchery
				Macro-Impact Fracture
				Hafting
259A.5	4	Utilized Flake	Crystal Quartz	Hide Working
				Hide Working
401A.1	4	Projectile Point	Jasper	Butchery
				Micro-Impact Fracture
				Hafting
401A.3	4	Utilized Flake	Chert	Hide Working
401A.4	4	Utilized Flake	Chert	Meat Cutting
408C.1	4	Projectile Point	Chert	Macro-Impact Fracture
				Hafting
408B.2	4	Graver Fragment	Quartz	Hide Working
418B.1	4	Utilized Flake	Jasper	Bone Working
				Hide Working
440D.5	4	Endscraper Fragment	Crystal Quartz	Indeterminate - Weathering
570C.1	4	Reworked Point	Jasper	Hafting
				Hafting

Table A.14. Results of Microwear Analysis, continued

Cat No.	Cluster	Artifact	Material	Function
573D.11	4	Projectile Point	Chert	Indeterminate Material
				Hafting
				Hafting
573D.5	4	Projectile Point	Quartz	Macro-Impact Fracture
574D.1	4	Scraper	Crystal Quartz	Hide Working
				Hide Working
589C.1	4	Spokeshave/Graver	Chert	Bone Working
				Bone Working
				Bone Working
591B.1	4	Scraper/Adze	Chert	Indeterminate - Weathering
592A.6	4	Scraper	Quartz	Hide Working
				Hide Working
				Hafting
597A.1	4	Bifacial Knife	Chert	Butchery
				Hafting
608D.1	4	Reworked Point	Chert	Butchery
				Antler Working
				Macro-Impact Fracture
				Hafting
610C.1	4	Scraper	Quartz	Indeterminate Material
				Hafting
611D.1	4	Notched Flake	Chert	Indeterminate - Weathering
612B.1	4	Utilized Flake	Crystal Quartz	Wood Working
				Wood Working
616A.2	4	Denitculate Flake	Jasper	Indeterminate - Material
616B.1	4	Graver	Jasper	Hide Working
				Hafting
620D.1	4	Projectile Point	Quartz	Indeterminate Material
				Hafting

Table A.15 Phase II and III Lithic Artifacts from Cluster 2

	Chalce-dony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	TOTAL
Late Stage Biface								1			1
Tested Cobble										2	2
Decortication Flake		3					20		3	4	30
Early Reduction Flake		2		1			29	1	3	11	47
Biface Thinning Flake	1	2	1	1	1	2	9	5		2	24
Block Shatter							16	2	2	2	22
TOTAL	1	7	1	2	1	2	74	9	8	21	126
PERCENT	0.8%	5.4%	0.8%	1.6%	0.8%	1.6%	57.4%	7.0%	6.2%	16.3%	
Hammerstone										9	9
Fire Cracked Rock										3	3

Table A.16. Lithic Artifacts from Cluster 3

	Cecil Co. Black Flint	Chalce-dony	Chert	Igneous/ Meta-morphic	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	Rhyo-lite	Sand-stone	TOTAL
Early Stage Biface									3						3
Middle Stage Biface									2						2
Late Stage Biface							1		7	2		1	1		12
Projectile Point			1							1					2
Unidentifiable Biface									1						1
Free Hand Core								1	7						8
Tested Cobble									6			4			10
Decortication Flake			10		1	2	2	8	56		8	10			97
Early Reduction Flake	7	1	9	1	2	3	4	6	79	7	11	10			140
Finishing Flake			1						9	3					13
Bipolar Reduction Flake							1			1					2
Biface Thinning Flake	3	2	31		12	7	7	8	190	27	10	17	2		316
Block Shatter			4			1	3	4	126	3	4	2		1	148
Flake Fragment			5			1	1	13	36	8		1	1		66
Blank										1					1
Endscraper			2						2	1					5
Utilized Flake		1	2		1		2	4	2						12
Endscraper/Sidescraper								1	4						5
TOTAL	10	4	65	1	16	14	21	45	530	54	33	45	4	1	843
PERCENT	1.2%	0.5%	7.7%	0.1%	1.9%	1.7%	2.5%	5.4%	63.0%	6.4%	3.9%	5.4%	0.5%	0.1%	

	Cecil Co. Black Flint	Chalce-dony	Chert	Igneous/ Meta-morphic	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	Meta-sedimen-tary	Sand-stone	TOTAL
Anvil												1			1
Hammerstone				2					5			16	2	6	31
Metate														1	1
TOTAL	0	0	0	2	0	0	0	0	5	0	0	17	2	7	33
PERCENT	0.0%	0.0%	0.0%	6.1%	0.0%	0.0%	0.0%	0.0%	15.2%	0.0%	0.0%	51.5%	6.1%	21.2%	
Fire Cracked Rock				3		8			7			43	9	39	109

Mica, N=1

Table A.17 Phase II and III Lithic Artifacts from Cluster 4

	Argillite	Cecil Co. Black Flint	Chal-cedony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	Rhyo-lite	Sand-stone	TOTAL
Early Stage Biface									4			1			5
Middle Stage Biface				1				2	15	2		2			22
Late Stage Biface	1		1	1			5	1	19	5					33
Projectile Point	3	1		6	1	1	4	2	12	5		1			36
Reworked Point				1	1										2
Unidentifiable Biface								1	5	2					8
Free Hand Core				8				1	17			6			32
Bipolar Core				1								2			3
Tested Cobble				4		1			21	1		4			31
Decortication Flake				56		2	12	31	169	6	9	33	1		319
Early Reduction Flake		2		63	3	4	13	26	195	11	12	54	2		385
Finishing Flake		6	1	86	2		42	43	137	38	1	9	1		366
Bipolar Reduction Flake									3						3
Biface Thinning Flake	1	9	2	147	2	4	62	82	612	208	9	77	11		1226
Block Shatter		2		44			14	29	277	12	10	8			396
Flake Fragment		2		66		2	25	36	206	42	2	9	3		393
Bifacial Knife		1													1
Endscraper				3				1		4					8
Sidescraper									1					1	2
Retouched Flake				3				1	1						5
Utilized Flake		3	1	10			3	9	9	6		5			46
Notched Flake									1						1
Graver Flake					1					1					2
Endscraper/Sidescraper				3				1	4	1					9
Spokeshave				2				1		1					4
Unidentifiable Uniface						1	1	2		1					5
TOTAL	5	26	5	505	10	15	181	269	1708	346	43	211	18	1	3343
PERCENT	0.1%	0.8%	0.1%	15.1%	0.3%	0.4%	5.4%	8.0%	51.1%	10.3%	1.3%	6.3%	0.5%	0.0%	

Table A.17 Phase II and III Lithic Artifacts from Cluster 4, continued

	Igneous/ Meta-morphic	Metasedi-mentary	Chal-cedony	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz, Rose	Quartz-ite	Rhyo-lite	Sand-stone	TOTAL
Abrader												1		2	3
Anvil												2		2	4
Hammerstone		1						2	5			37		18	63
Mortar												1			1
Pitted Cobble												1			1
Unidentifiable Cobble Tool												1			1
TOTAL															73
PERCENT															
Fire Cracked Rock	1	11				10			81			410		140	653

Mica, N=10

Table A.18 Phase II and III Lithic Artifacts from Cluster 5

	Cecil Co. Black Flint	Chert	Iron Hill Jasper	Iron-stone	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz-ite	Sand-stone	TOTAL
Late Stage Biface							1				1
Reworked Point		1									1
Unidentifiable Biface	1										1
Free Hand Core							1		1		2
Tested Cobble		1					2	1			4
Decortication Flake		1				2	1		3		7
Early Reduction Flake					1	1	4		2		8
Finishing Flake	4	3	1		5	6	1				20
Biface Thinning Flake	3	10	1		2	6	8	6	2		38
Block Shatter		1	3				5		1		10
Flake Fragment	1	10	1			2	2	1			17
Utilized Flake				1		1					2
Unidentifiable Uniface						1					1
TOTAL	9	27	6	1	8	19	25	8	9		112
PERCENT	8.0%	24.1%	5.4%	0.9%	7.1%	17.0%	22.3%	7.1%	8.0%		
Anvil									1		1
Hammerstone									2	2	4
TOTAL									3	2	5
PERCENT									50.0%	33.3%	
Fire Cracked Rock				1			1		18	2	22

Steatite, N=3

Table A.19 Assemblage Characteristics by Cluster

Cluster	1	2	3	4	5
Temporal period*	WI, WII	Unknown	Archaic	WI, ?WII	WII, ?WI
Non-debitage lithics, proportion	12.1%	4.7%	10.7%	9.7%	13.8%
Average lithic density	50.2	25.8	40.8	43.5	29.0
Biface thinning flakes	41.5%	23.8%	55.7%	53.4%	52.1%
Decortication flakes	26.9%	29.7%	17.1%	13.9%	9.6%
Heat-treated artifacts, proportion	2.3%	1.6%	1.4%	8.2%	19.0%
Bipolar technology	anvil	none	bipolar	bipolar	anvils
Quartz, proportion	51.9%	57.4%	73.1%	62.7%	29.4%
Delaware Chalcedony, proportion	3.4%	1.6%	3.6%	1.2%	13.4%
Cryptocyrstalline quartz, proportion	40.7%	9.5%	19.1%	29.8%	61.6%
Rhyolite/argillite, number	2	0	4	23	0
Ceramics	7	0	0	2	8, 3 Steatite
Features	none	Fea. 1	none	Fea. 3 and 4	none
Flake tools	6		12	54	2
Form tools, excluding points	7		9	32	2
Ratio- Flake tools:form tools	.9:1		1.3:1	1.7:1	1:1
All tools	27		25	131	6
Late stage debitage	204		329	1592	58
Ratio- Tools:late stage debitage	.130:1		.076:1	.082:1	.103:1
FCR density	4.08	0.60	5.19	8.37	5.50
FCR average weight	57.8	75.5	103.8	65.5	54.3
Number of tool classes	5	0	3	11	3
All tools, including cobble tools	27		25	131	6
Debitage, total	535		685	3088	100
Ratio- Debitage(all):tools	19.8:1		27.4:1	23.6:1	16.7:1

* WI = Woodland I, WII = Woodland II

Table A.20 Projectile Point Haft Types

	Argil-lite	Cecil Co. Flint	Chert	Iron Hill Jasper	Jasper, Red	Jasper, Yellow/ Brown	Quartz	Quartz, Crystal	Quartz-ite	Total	Percent
Corner-notched			1							1	2.9%
Eared-notched							2			2	5.7%
Side-notched						1	4			5	14.3%
Stemmed		1	5		1	2	3	2	2	16	45.7%
Unstemmed	3						2			5	14.3%
Triangular			1	1	2					4	11.4%
Bifurcate base			1							1	2.9%
Broadspear			1							1	2.9%
	3	1	9	1	3	3	11	2	2	35	100.0%

Table A.21. Heat Treatment by Material Type and Cluster

	Non-cluster	1	2	3	4	5	TOTAL altered	PERCENT of material type
Cecil County Black Flint					1	2	3	6.0%
Chalcedony							0	0
Chert	3	3		1	103	8	118	16.5%
Iron Hill Jasper					2		2	4.2%
Ironstone	1						1	2.6%
Jasper, Red	2	2		2	32	4	42	16.1%
Jasper, Yellow/Brown					35	1	36	9.6%
Quartz	4			6	52	4	66	2.5%
Quartz, Crystal					2		2	0.4%
Quartz, Rose					1		1	0.8%
Quartzite	4	2	3	3	39	3	54	16.1%
Rhyolite		2		1	2		5	20.8%
TOTAL by cluster	14	9	3	13	269	22	330	
PERCENT of cluster assemblage		1.5%	2.3%	1.4%	8.2%	19.0%		